## SEQUENCE LISTING

<110: Sagami Chemical Research Center,</pre>

Protegene Inc.

<120 Human proteins having hydrophobic domains and DNAs encoding these proteins

<130 - 661926

<150 · JP 11-194359

<151 · 1999-07-08

 $\pm 160 \cdot 30$ 

<210 ⋅ 1

<211 - 339

<212> PRT

<213 Homo sapiens

⟨400⟩ 1

Met Ser Pro Scr Pro Thr Ala Leu Phe Cys Leu Gly Leu Cys Leu Gly

5 10 15

Arg Val Pro Ala Gln Ser Gly Pro Leu Pro Lys Pro Ser Leu Gln Ala

Leu Pro Ser Ser Leu Val Pro Leu Glu Lys Pro Val Thr Leu Arg Cys Gln Gly Pro Pro Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser Ser Ser Arg Tyr Gln Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys Arg Ser Leu Ala Gly Arg Tyr Arg Cys Ser Tyr Gln Asn Gly Ser Leu Trp Ser Leu Pro Ser Asp Gln Leu Glu Leu Val Ala Thr Gly Val Phe Ala Lys Pro Ser Leu Ser Ala Gln Pro Gly Pro Ala Val Ser Ser Gly Gly Asp Val Thr Leu Gln Cys Gln Thr Arg Tyr Gly Phe Asp Gln Phe Ala Leu Tyr Lys Glu Gly Asp Pro Ala Pro Tyr Lys Asn Pro Glu Arg Trp Tyr Arg Ala Ser Phe Pro Ile Ile Thr Val Thr Ala Ala His Ser Gly Thr Tyr Arg Cys Tyr Ser Phe Ser Ser Arg Asp Pro Tyr Leu Trp Ser Ala Pro Ser Asp Pro Leu Glu Leu Val Val Thr Gly Thr Ser Val Thr Pro Ser Arg Leu Pro Thr Glu Pro Pro Ser Ser Val Ala Glu Phe Ser Glu Ala Thr Ala Glu Leu Thr Val Ser Phe Thr Asn Glu Val Phe Thr 225 230 235 240

Thr Glu Thr Ser Arg Ser Ile Thr Ala Ser Pro Lys Glu Ser Asp Ser 245 250 255

Pro Ala Gly Pro Ala Arg Gln Tyr Tyr Thr Lys Gly Asn Leu Val Arg 260 265 270

He Cys Leu Gly Ala Val Ilc Leu Ile Ile Leu Ala Gly Phe Leu Ala 275 280 285

Glu Asp Trp His Ser Arg Arg Lys Arg Leu Arg His Arg Gly Arg Ala 290 295 300

Val Gln Arg Pro Leu Pro Pro Leu Pro Pro Leu Pro Leu Thr Arg Lys 305 310 315 320

Ser His Gly Gly Gln Asp Gly Gly Arg Gln Asp Val His Scr Arg Gly 325 330 335

Leu Cys Ser

<210 ≥ 2

<211 \ 487

<212 · PRT

<213 Homo sapiens

<400 > 2

Met Ala Ser Ser Ala Glu Gly Asp Glu Gly Thr Val Val Ala Leu Ala 1 5 10 15

Gly Val Leu Gln Ser Gly Phe Gln Glu Leu Ser Leu Asn Lys Leu Ala

20 25 30

Thr Scr Leu Gly Ala Ser Glu Gln Ala Leu Arg Leu Ile Ile Ser Ile 35 40 45

Phe Leu Gly Tyr Pro Phe Ala Leu Phe Tyr Arg His Tyr Leu Phe Tyr

50 55 60

Lys Glu Thr Tyr Leu Ile His Leu Phe His Thr Phe Thr Gly Leu Ser

65 70 75 80

lle Ala Tyr Phe Asn Phe Gly Asn Gln Leu Tyr His Ser Leu Leu Cys
85 90 95

Ile Val Leu Gln Phe Leu Ile Leu Arg Leu Met Gly Arg Thr Ile Thr

Ala Val Leu Thr Thr Phe Cys Phe Gln Met Ala Tyr Leu Leu Ala Gly

Tyr Tyr Tyr Thr Ala Thr Gly Asn Tyr Asp Ile Lys Trp Thr Met Pro

His Cys Val Leu Thr Leu Lys Leu He Gly Leu Ala Val Asp Tyr Phe
145 150 155 160

Asp Gly Gly Lys Asp Gln Asn Ser Leu Ser Ser Glu Gln Gln Lys Tyr

165 170 175

Ala Ile Arg Gly Val Pro Ser Leu Leu Glu Val Ala Gly Phe Ser Tyr 180 185 190

Phe Tyr Gly Ala Phe Leu Val Gly Pro Gln Phe Ser Met Asn His Tyr
195 200 205

Met Lys Leu Val Gln Gly Glu Leu Ile Asp Ile Pro Gly Lys Ile Pro 210 215 220 Asn Ser Ile Ile Pro Ala Leu Lys Arg Leu Ser Leu Gly Leu Phe Tyr Leu Val Gly Tyr Thr Leu Leu Ser Pro His Ile Thr Glu Asp Tyr Leu Leu Thr Glu Asp Tyr Asp Asn His Pro Phe Trp Phe Arg Cys Mct Tyr Met Leu Ile Trp Gly Lys Phe Val Leu Tyr Lys Tyr Val Thr Cys Trp Leu Val Thr Glu Gly Val Cys Ile Leu Thr Gly Leu Gly Phe Asn Gly Phe Glu Glu Lys Gly Lys Ala Lys Trp Asp Ala Cys Ala Asn Met Lys Val Trp Leu Phe Glu Thr Asn Pro Arg Phe Thr Gly Thr Ile Ala Ser Phe Asn Ile Asn Thr Asn Ala Trp Val Ala Arg Tyr Ile Phe Lys Arg Leu Lys Phe Leu Gly Asn Lys Glu Leu Ser Gln Gly Leu Ser Leu Leu Phe Leu Ala Leu Trp His Gly Leu His Ser Gly Tyr Leu Val Cys Phe Gln Met Glu Phe Leu Ile Val Ile Val Glu Arg Gln Ala Ala Arg Leu Ile Gln Glu Ser Pro Thr Leu Ser Lys Leu Ala Ala Ile Thr Val Leu Gln Pro Phe Tyr Tyr Leu Val Gln Gln Thr Ilc His Trp Leu Phe Met

425

430

Gly Tyr Ser Wet Thr Ala Phe Cys Leu Phe Thr Trp Asp Lys Trp Leu
435 440 445

Lys Val Tyr Lys Ser Ile Tyr Phe Leu Gly His Ile Phe Phe Leu Ser 450 455 460

Leu Leu Phe Ile Leu Pro Tyr Ile His Lys Ala Met Val Pro Arg Lys
465 470 475 480

Glu Lys Leu Lys Lys Met Glu

485

<210≻ 3

**<211 < 262** 

<212 PRT

<213 Homo sapiens

<400 - 3

Met Ala Ala Ala Ser Ala Gly Ala Thr Arg Leu Leu Leu Leu Leu Leu Leu 15 10 15

Met Ala Val Ala Ala Pro Ser Arg Ala Arg Gly Ser Gly Cys Arg Ala
20 25 30

Gly Thr Gly Ala Arg Gly Ala Gly Ala Glu Gly Arg Glu Gly Glu Ala 35 40 45

Cys Gly Thr Val Gly Leu Leu Leu Glu His Ser Phe Glu Ile Asp Asp
50 55 60

Ser Ala Asn Phe Arg Lys Arg Gly Ser Leu Leu Trp Asn Gln Gln Asp

65	70	75		80
Gly Thr Leu Ser	Leu Ser Gln Ar	g Gln Leu Ser	Glu Glu Glu A	Arg Gly
	85	90		95
Arg Leu Arg Asp	Val Ala Ala Le	eu Asn Gly Leu	Tyr Arg Val	Arg Ile
100	)	105	110	
Pro Arg Arg Pro	o Gly Ala Leu As	sp Gly Leu Glu	Ala Gly Gly	Tyr Val
115		20	125	
Ser Ser Phe Va	l Pro Ala Cys S	er Leu Val Glu	Ser His Leu	Ser Asp
130	135		140	
Gln Leu Thr Le	u His Val Asp V	al Ala Gly Asn	Val Val Gly	Val Ser
145	150	155		160
	s Pro Gly Gly C	Cys Arg Gly His	s Glu Val Glu	Asp Val
	165	170		175
Asp Leu Glu L	eu Phe Asn Thr S	Ser Val Gln Le	ı Gln Pro Pro	Thr Thr
	80	185	190	
Ala Pro Gly P	ro Glu Thr Ala	Ala Phe Ile Gl	u Arg Leu Glu	Met Glu
195		200	205	
Gln Ala Gln i	ys Ala Lys Asn	Pro Gln Glu Gl	n Lys Ser Phe	Phe Ala
210	215		220	
Lys Tyr Trp	Met Tyr Ile Ile	Pro Val Val Le	eu Phe Leu Me	t Met Ser
225	230	23	35	240
Gly Ala Pro	Asp Thr Gly Gly	Gln Gly Gly G	ly Gly Gly Gl	y Gly Gly
	245	250		255
Gly Gly Gly	Ser Gly Arg			

<210≥ 4

<211 → 166

<212 · PRT

(213 / Homo sapiens

<400 > 4

Met Gln Pro Pro Val Pro Gly Pro Leu Gly Leu Leu Asp Pro Ala Glu

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Gly Leu Ser Arg Arg Lys Lys Thr Ser Leu Trp Phe Val Gly Ser Leu
20 25 30

Leu Leu Val Ser Val Leu Ile Val Thr Val Gly Leu Ala Ala Thr Thr 35 40 45

Arg Thr Glu Asn Val Thr Val Gly Gly Tyr Tyr Pro Gly Ile Ile Leu
50 55 60

Gly Phe Gly Ser Phe Leu Gly Ile Ile Gly Ile Asn Leu Val Glu Asn 65 70 75 80

Arg Arg Gln Met Leu Val Ala Ala Ile Val Phe Ile Ser Phe Gly Val 85 90 95

Val Ala Ala Phe Cys Cys Ala Ile Val Asp Gly Val Phe Ala Ala Gln 100 105 110

His Ile Glu Pro Arg Pro Leu Thr Thr Gly Arg Cys Gln Phe Tyr Ser 115 120 125

Ser Gly Val Gly Tyr Leu Tyr Asp Val Tyr Gln Thr Glu Val Ser Arg 130 135 140 Ser Thr Glu lle His Val Gly Phe Ala Gln Leu Thr Pro Pro Thr Pro 155 150 145

Arg Gly Phe Pro Cys Thr

165

⟨210⟩ 5

<2115 416

1212 PRT

(213) Homo sapiens

<400> 5

Met Ser Glu Ala Asp Gly Leu Arg Gln Arg Arg Pro Leu Arg Pro Gln 10 ]

Val Val Thr Asp Asp Gly Gln Ala Pro Glu Ala Lys Asp Gly Ser 25 20

Ser Phe Ser Gly Arg Val Phe Arg Val Thr Phe Leu Met Leu Ala Val 45 40 35

Ser Leu Thr Val Pro Leu Leu Gly Ala Met Met Leu Leu Glu Ser Pro 60 55

Ile Asp Pro Gln Pro Leu Ser Phe Lys Glu Pro Pro Leu Leu Leu Gly 80 75 70

65 Val Leu His Pro Asn Thr Lys Leu Arg Gln Ala Glu Arg Leu Phe Glu 85

Asn Gln Leu Val Gly Pro Glu Ser Ile Ala His Ile Gly Asp Val Met

Phe Thr Gly Thr Ala Asp	Gly Arg Val V	al Lys Leu Glu	Asn Gly Glu
115	120	125	
Ile Glu Thr Ile Ala Arg	Phe Gly Ser (	Gly Pro Cys Lys	: Thr Arg Asp
130	135	140	
Asp Glu Pro Val Cys Gly	Arg Pro Leu	Gly Ile Arg Ala	a Gly Pro Asn
150		155	160
Gly Thr Leu Phe Val Ala	Asp Ala Tyr	Lys Gly Leu Ph	e Glu Val Asn
		170	175
165	I I an Lou		u Thr Pro lle
Pro Trp Lys Arg Glu Val		Lea Ser Gor of	190
180	185		
Glu Gly Lys Asn Met Ser	Phe Val Asn	Asp Leu Thr Va	ll Thr Gln Asp
195	200	20	05
Gly Arg Lys Ile Tyr Pho	e Thr Asp Ser	Ser Ser Lys Ti	rp Gln Arg Arg
210	215	220	
Asp Tyr Leu Leu Leu Va	l Met Glu Gly	Thr Asp Asp G	ly Arg Leu Leu
0.0		235	240
225 23  Glu Tyr Asp Thr Val Th		Lys Val Leu L	eu Asp Gln Leu
	L Wid Old 191		255
245		250	
Arg Phe Pro Asn Gly Va	l Gln Leu Sei	r Pro Ala Glu A	
260	26	ī	270
Val Ala Glu Thr Thr Mo	et Ala Arg Il		
275	280		285
Leu Met Lys Gly Gly A	la Asp Leu Ph	e Val Glu Asn I	Met Pro Gly Phe
290	295	300	
Pro Asp Asn Ile Arg P	ro Ser Ser Se	er Gly Gly Tyr	Trp Val Gly Met

320 315 310 305 Ser Thr Ile Arg Pro Asn Pro Gly Phe Ser Met Leu Asp Phe Leu Ser 335 330 325 Glu Arg Pro Trp Ile Lys Arg Mct Ile Phe Lys Leu Phe Ser Gln Glu 350 345 340 Thr Val Met Lys Phe Val Pro Arg Tyr Ser Leu Val Leu Glu Leu Ser 365 360 355 Asp Ser Gly Ala Phe Arg Arg Ser Leu His Asp Pro Asp Gly Leu Val 380 375 370 Ala Thr Tyr Ile Ser Glu Val His Glu His Asp Gly His Leu Tyr Leu 400 395 390 385 Gly Ser Phe Arg Ser Pro Phe Leu Cys Arg Leu Ser Leu Gln Ala Val 415 410 405

<210≥ 6

<211 - 117

<212 > PRT

<213> Homo sapiens

⟨400⟩ 6

Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Leu Gly Ala Trp Ala 1 5 10 15

Ile Pro Gly Gly Leu Gly Asp Arg Ala Pro Leu Thr Ala Thr Ala Pro
20 25 30

Gln Leu Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu

 Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Val Ser Pro Ser Pro

 50
 55
 60

 Leu Ser Pro Cys Pro Ala His Thr Pro Ser Gln Ala Arg Pro Leu His
 70
 75
 80

 Pro Pro His Ile Pro Pro Pro Ala Phe Asp Pro Gln Ser Leu Pro Leu
 95
 95

Gly Ile Lys Pro Gln Met Gln Pro Phe Ile Tyr Ser Met Pro Gln Phe
100 105 110

Thr His Leu Pro Ala

115

<210> 7

**42112 324** 

(212) PRT

<213> Homo sapiens

⟨400⟩ 7

Met Ser Val Glu Asp Gly Gly Met Pro Gly Leu Gly Arg Pro Arg Gln

Ala Arg Trp Thr Leu Met Leu Leu Leu Ser Thr Ala Met Tyr Gly Ala
20 25 30

His Ala Pro Leu Leu Ala Leu Cys His Val Asp Gly Arg Val Pro Phe 35 40 45

Arg Pro Ser Ser Ala Val Leu Leu Thr Glu Leu Thr Lys Leu Leu Leu

50	<b>5</b> 5	60	
Cys Ala Phe Ser Leu	Leu Val Gly T	rp Gln Ala Trp P	ro Gln Gly Pro
65	70	75	80
Pro Pro Trp Arg Gli	n Ala Ala Pro F	Phe Ala Leu Ser A	la Leu Leu Tyr
8:		90	95
Gly Ala Asn Asn As		Tyr Leu Gln Arg 1	fyr Met Asp Pro
100		105	110
Ser Thr Tyr Gln Va	d Leu Ser Asn	Leu Lys Ile Gly S	Ser Thr Ala Val
	120		125
115 Leu Tyr Cys Leu Cy		Arg Leu Ser Val	Arg Gln Gly Leu
	135	140	
130 Ala Leu Leu Leu L		Glv Ala Cys Tyr	Ala Ala Gly Gly
Ala Leu Leu Leu L		155	160
145	150		Pro Ala Ala Ala
Leu Gln Val Pro C			175
	165	170	
Ala Ser Pro Met	?ro Leu His Il∈		190
180		185	
Ile Leu Tyr Cys	Leu Ile Ser Gl	y Leu Ser Ser Val	
195	20		205
Leu Met Lys Arg	Gln Arg Leu Pr	o Leu Ala Leu Glo	n Asn Leu Phe Leu
210	215	220	
Tyr Thr Phe Gly	Val Leu Leu As	sn Leu Gly Leu Hi	s Ala Gly Gly Gly
225	230	235	240
Ser Gly Pro Gly	Leu Leu Glu G	ly Phe Ser Gly Tr	p Ala Ala Leu Val
	245	250	<b>2</b> 55

Val Leu Ser Gln Ala Leu Asn Gly Leu Leu Met Ser Ala Val Met Lys 270 265 260 His Gly Ser Ser Ile Thr Arg Leu Phe Val Val Ser Cys Ser Leu Val 280 275 Val Asn Ala Val Leu Ser Ala Val Leu Leu Arg Leu Gln Leu Thr Ala 300 295 290 Ala Phe Phe Leu Ala Thr Leu Leu Ile Gly Leu Ala Met Arg Leu Tyr 320 315 310 305 Tyr Gly Ser Arg <210> 8 /211 - 137 :212 PRT ·213 · Homo sapiens <400> 8 Met Gly Phe Gly Ala Thr Lou Ala Val Gly Leu Thr Ile Phe Val Leu 15 10 5 1 Ser Val Val Thr Ile Ile Ile Cys Phe Thr Cys Ser Cys Cys Leu 30 25 20 Tyr Lys Thr Cys Arg Arg Pro Arg Pro Val Val Thr Thr Thr Ser 45 40 Thr Thr Val Val His Ala Pro Tyr Pro Gln Pro Pro Ser Val Pro Pro 60 55 50

Ser Tyr Pro Gly Pro Ser Tyr Gln Gly Tyr His Thr Met Pro Pro Gln

Pro Gly Mct Pro Ala Ala Pro Tyr Pro Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro Ala Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala Ser Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala Leu <210> 9 <211 311 <212 · PRT <213 Homo sapiens</pre> **<400>** 9 Met Gly Val Pro Thr Ala Leu Glu Ala Gly Ser Trp Arg Trp Gly Ser Leu Leu Phe Ala Leu Phe Leu Ala Ala Ser Leu Gly Pro Val Ala Ala Phe Lys Val Ala Thr Pro Tyr Scr Leu Tyr Val Cys Pro Glu Gly Gln 0 Asn Val Thr Leu Thr Cys Arg Leu Leu Gly Pro Val Asp Lys Gly His 

Asp Val Thr Phe Tyr Lys Thr Trp Tyr Arg Ser Ser Arg Gly Glu Val

Gln Thr Cys Ser Glu Arg Arg Pro Ile Arg Asn Leu Thr Phe Gln Asp Leu His Leu His His Gly Gly His Gln Ala Ala Asn Thr Ser His Asp Leu Ala Gln Arg His Gly Leu Glu Ser Ala Ser Asp His His Gly Asn Phe Ser Ile Thr Met Arg Asn Leu Thr Leu Leu Asp Ser Gly Leu Tyr Cys Cys Leu Val Val Glu Ile Arg His His His Ser Glu His Arg Val His Gly Ala Met Glu Leu Gln Val Gln Thr Gly Lys Asp Ala Pro Ser Asn Cys Val Val Tyr Pro Ser Ser Ser Gln Glu Ser Glu Asn Ile Thr Ala Ala Ala Leu Ala Thr Gly Ala Cys Ile Val Gly Ile Leu Cys Leu Pro Leu Ile Leu Leu Val Tyr Lys Gln Arg Gln Ala Ala Ser Asn Arg Arg Ala Gln Glu Leu Val Arg Met Asp Ser Asn Ile Gln Gly Ile Glu Asn Pro Gly Phe Glu Ala Ser Pro Pro Ala Gln Gly 11e Pro Glu Ala Lys Val Arg His Pro Leu Ser Tyr Val Ala Gln Arg Gln Pro Ser 

Glu Ser Gly Arg His Leu Leu Ser Glu Pro Ser Thr Pro Leu Ser Pro Pro Gly Pro Gly Asp Val Phe Phe Pro Ser Leu Asp Pro Val Pro Asp Ser Pro Asn Phe Glu Val Ile <210> 10 <211 ≥ 543 <212 · PRT <213 · Homo sapiens <400> 10 Met Ala Val Ser Glu Arg Arg Gly Leu Gly Arg Gly Ser Pro Ala Glu Trp Gly Gln Arg Leu Leu Leu Val Leu Leu Leu Gly Gly Cys Ser Gly Arg Ile His Arg Leu Ala Leu Thr Gly Glu Lys Arg Ala Asp Ile Gln Leu Asn Ser Phe Gly Phe Tyr Thr Asn Gly Ser Leu Glu Val Glu Leu Ser Val Leu Arg Leu Gly Leu Arg Glu Ala Glu Glu Lys Ser Leu Leu Val Gly Phe Ser Leu Ser Arg Val Arg Ser Gly Arg Val Arg Ser Tyr 

Ser Thr Arg Asp Phe	Gln Asp Cys Pro	o Leu Gln Lys A	Asn Ser Ser Ser
100	10		110
Phe Leu Val Leu Phe	Leu Ile Asn Th	r Lys Asp Leu	Gln Val Gln Val
	120		125
Arg Lys Tyr Gly Glu		eu Phe Ile Phe	Pro Gly Leu Leu
	135	140	
130 Pro Glu Ala Pro Se		on Pro Lys Pro	Gln Ala Thr Val
Pro Glu Ala Pro Se			160
145	150	155	
Pro Arg Lys Val As	p Gly Gly Gly T	hr Ser Ala Ala	
16		170	175
Ser Thr Pro Ala Va	al Ile Gln Gly F	Pro Ser Gly Lys	Asp Lys Asp Leu
180		185	190
Val Leu Gly Leu S	er His Leu Asn A	Asn Ser Tyr Asr	n Phe Ser Phe His
195	200		205
Val Val 11e Gly S	Ger Gln Ala Glu	Glu Gly Gln Ty	r Ser Leu Asn Phe
210	215	22	
	Asn Ser Val Pro	Gly Lys Glu Hi	s Pro Phe Asp Ile
	230	235	240
225		Pro Asp Gly Ph	ne Leu Ser Ala Ala
Thr val met lie		250	255
	245		er Ala Cys Phe Leu
Glu Met Pro Leu	Phe Lys Leu Tyr		er Ala Cys Phe Leu 270
260		265	
Ala Ala Gly Ile	Phe Trp Val Ser	· Ile Leu Cys A	rg Asn Thr Tyr Ser
275	280		285
Val Phe Lys Ile	His Trp Leu Me	t Ala Ala Leu A	la Phe Thr Lys Ser

290	295		300	
Ile Ser Leu Leu I	Phe His Ser	lle Asn Tyr	Tyr Phe []	le Asn Ser Gln
305	310		315	320
Gly His Pro Ile	Glu Gly Leu	Ala Val Me	t Tyr Tyr I	le Ala His Leu
	325	33	0	335
Leu Lys Gly Ala	Leu Leu Phe	lle Thr Il	e Ala Leu I	le Gly Ser Gly
340		345		350
Trp Ala Phe Ile	Lys Tyr Val	Leu Ser As	p Lys Glu L	ys Lys Val Phe
355		360	3	865
Gly Ile Val lle	Pro Met Gln	Val Leu A	la Asn Val <i>A</i>	Ala Tyr Ile Ile
370	375	)	380	
Ile Glu Ser Arg	Glu Glu Gly	Ala Ser A	sp Tyr Val I	Leu Trp Lys Glu
385	390		395	400
lle Leu Phe Leu	ı Val Asp Le	u lle Cys C	ys Gly Ala	Ile Leu Phe Pro
	405	4	110	415
Val Val Trp Se	r Ile Arg Hi	s Leu Gln <i>H</i>	Asp Ala Ser	Gly Thr Asp Gly
42	0	425		430
Lys Val Ala Va	l Asn Leu Al	la Lys Leu 1	Lys Leu Phe	Arg His Tyr Tyr
435		440		445
Val Met Val II	le Cys Tyr Va	al Tyr Phe	Thr Arg Ile	Ile Ala Ile Leu
450	4	55	460	
Leu Gln Val A	la Val Pro P	he Gln Trp	Gln Trp Leu	Tyr Gln Leu Leu
465	470		475	480
Val Glu Gly S	er Thr Leu A	la Phe Phc	Val Leu Thr	Gly Tyr Lys Phe
	485		490	495

Gln	Pro	Thr	Gly	Asn	Asn	Pro	Tyr	Leu	Gln	Leu	Pro	Gln	Glu	Asp	Glu
			500					<b>50</b> 5					510		
Glu	Asp	Val	Gln	Met	Glu	Gln	Val	Met	Thr	Asp	Ser	Gly	Phe	Arg	Glu
		515					520					525			
Gly	Leu	Ser	Lys	Val	Asn	Lys	Thr	Ala	Ser	Gly	Arg	Glu	Leu	Leu	
	530	ı				535	,				540				

<210> 11

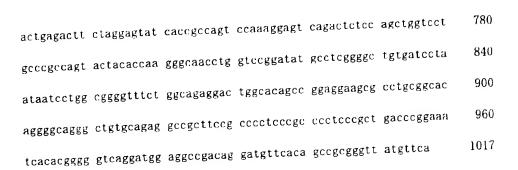
<211 ≥ 1017

-212 - DNA

<213 Homo sapiens

<400≥ 11

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₹210> 12

<211: 1461

:212 · DNA

(213 · Homo sapiens

**<400** > 12

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<210 ⋅ 13

<211 · 786

(212 > DNA

(213) Homo sapiens

⟨400⟩ 13

atggcggcag ccagcgtgg ggcaaccegg ctgctcctgc tcttgctgat ggcggtagca 60 gegcccagtc gagcccgggg cagcggctgc cgggccggga ctggtgcgcg aggggctggg 120 geggaaggtc gagaggcga ggcctgtggc acggtgggc tgctgtgga gcactcattt 180 gagatcgatg acagtgccaa cttccggaag cggggctcac tgctcggaa ccagcaggat 240 ggtaccttgt ccctgtcaca gcggcagctc agcgaggagg agcggggccg actccgggat 300 gtggcagccc tgaatggcct gtaccgggtc cggatcccaa ggcgacccg ggccctggat 360

240

300

360

420

480

498

				- at ant coot	potggagtcg	420
ggcctggaag	ctggtggcta	tgtctcctcc	tttgtcccig	Caracter	KH-80 C	
<b>6</b> 6- 00	accagetgae	est account of	gatgtggccg	gcaacgtggt	gggcgtgtcg	480
cacctgtcgg	accagaigac	CCIRCACRIA	<b>50</b> -0 · 0 · ·		A - angot a	540
-+ agt gangn	accccggggg	ctgccggggc	catgaggtgg	aggacgtgga	CCfBBakerk	0.10
gragrance	40			caggccctga	gacggcggcc	600
ttcaacacct	cggtgcagct	gcagccgccc	accacagood	Canno		cco
	et ggagat	орансаддес	cagaaggcca	agaaccccca	ggagcagaag	660
ttcattgago	g GCC r g g a g a c	55000-00			catgatgtca	720
trettette	<sub>ccaaatacte</sub>	gatgtacate	attcccgtcg	teetgiieei	catgatgtca	
	-		, astogggts	g ggggtggtgg	g tgggggtagt	780
ggagcgcca	g acaccgggg	z ccagggress	5 55 556600 5	, ,		786
						100
ggccgg						

<210 ≥ 14

<211 · 498

<212> DNA

<213> Homo sapiens

⟨400⟩ 14

.100/					+++00200	60
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	nateacteta	gtttgtgggg	tctctgctgc	tggtgtccgt	cctcatagtc	120
aggaagaaga	CRICECTOR	<b>6 3 6</b>	montata	ccattggggg	ctactaccca	180
accgtcgggc	tggctgccac	caccaggacg	gagaatgtgn	5080000		240
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₹400 > 19

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Gln Arg Gln Leu Ser Glu Glu Glu Arg Gly Arg Leu Arg Asp Val Ala	
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Leu Asp Gly Leu Glu Ala Gly Gly Tyr Val Ser Ser Phe Val Pro Ala	
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Cys Ser Leu Val Glu Ser His Leu Ser Asp Gln Leu Thr Leu His Val	
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Asp Val Ala Gly Ash 165	
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ggc tgc cgg ggc tac gag 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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acc tog gtg cag ctg cag cog oso m Thr Ser Val Gln Leu Gln Pro Pro Thr Thr Ala Pro Gly Pro Glu Thr	
Thr Ser Val Gln Leu Gln F10	
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200 205 210	724
aac ccc cag gag cag aag tcc ttc ttc gcc aaa tac tgg atg tac atc	

Asn Pro Gln Glu Gln Lys Ser Phe Phe Ala Lys Tyr Trp Met Tyr Ile 225 220 215 772 att ccc gtc gtc ctg ttc ctc atg atg tca gga gcg cca gac acc ggg lle Pro Val Val Leu Phe Leu Met Met Ser Gly Ala Pro Asp Thr Gly 245 240 235 820 Gly Gln Gly Gly Gly Gly Gly Gly Gly Gly Gly Ser Gly Arg 260 tgagggccca ggctggtcag cgtcccgtct tgcacaccca ggggcctccc ttctgctgga 880 940 gteccetgtg tecteageea teccaagaag ggtttgetgg teceteettt ecceeegtee 1000 cacgaggeca cetgggecag eccettgtee tetgeettet getggeagag gageagetgg actggggcct ttggcacage agccggtgte tcctgcgccc gcctccccca tggccccatg 1060 1120 cagococagg ggottococo etgeccatgg agtagagece gagateetgg ecactatgee agtictgace tegeatecee etanecegag cecatgeagt etgggaacat geogeettet 1180 ctccagcete tgtgcctttg ttccaggtgg tctcaccete ctgtccctgg ctgggctagg 1240 1300 tggtcctgtc caggctcctg cagcgccccc ctcactttga cactggacta ggatgcagcc tecettetgt gteceettga gggtaceetg ggteeeetea teaggggeag aggeatgaaa 1360 gagtcgggge tggatggccg ggggcttctg ggcccgacgc ctagtgcagc ccetggggtc 1420 gtggtttgac atttgtctgc ctggtgcaaa caaggaatcc ttgcctttaa ggtgacaggc 1480 1540 cctccacagg cttccagact tgaaggaaaa ggtttaagaa agaaaacaaa accaacagtt agtggagtea aagcccagac actgtaaata gaaccccctc caccaccccc cgccgcccag 1600 catectacet ggactgeggt getaegaggg cetgegggee titgetgtgt gecaecetee 1660 etgtaagtet atttaaaaac ategaegata cattgaaatg tgtgaaegtt ttgaaaaget 1720 1780 acagetteea geagecaaaa geaactgttg ttttggeaag aeggteetga tgtacaaget tgattgaaat teactgetea ettgataegt tatteagaaa eecaaggaat ggetgteece 1840 atcordatgt ggctgtgtgg agotcagetg tgttgtgtgg cagtttatta aactgtcccc 1900 1907 cagateg <210> 24 <211> 1727 <2125 DNA (213) Homo sapiens <220 € <221 > CDS <222> (20)... (520) ⟨400⟩ 24 49 agongggtgg ggootoggg atg cag cog ecg gtg one ggg occ ctg ggc Met Gln Pro Pro Val Pro Gly Pro Leu Gly 10 5 1 97 ctg ctg gac ccc gca gaa ggg ctt tcg agg agg aag aag acg tcg ctc Leu Leu Asp Pro Ala Glu Gly Leu Ser Arg Arg Lys Lys Thr Ser Leu 25 20 15 tgg ttt gtg ggg tct ctg ctg ctg gtg tcc gtc ctc ata gtc acc gtc 145 Trp Phe Val Gly Ser Leu Leu Leu Val Ser Val Leu Ile Val Thr Val 40 35 30 ggg ctg gct gcc acc acc agg acg gag aat gtg acc gtt ggg ggc tac 193 Gly Leu Ala Ala Thr Thr Arg Thr Glu Asn Val Thr Val Gly Gly Tyr 55

50

2 +++ gga tot tto tta gga att att ggo	41
tac cca ggg atc att ctc ggc ttt gga tct ttc tta gga att att ggc 2	
Tyr Pro Gly Ile Ile Leu Gly Phc Gly Ser Phe Leu Gly Ile Ile Gly 70	
60	289
atc aac tig gig gag aat aga agg caa aig cig gig gca gcg aic gig	
lle Asn Leu Val Glu Asn Arg Arg Gln Met Leu Val Ala Ala IIC val	
75 80	007
the arc agt tit ggo gig gig goo goo the igo igo goo alo gig gao	337
Phe Ile Ser Phe Gly Val Val Ala Ala Phe Cys Cys Ala Ile Val Asp	
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IIU	433
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Leu Thr Pro Pro Thr Pro Arg Gly Phe Pro Cys Thr	
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coctgigtti gggaccitga callicgaig igoigeast	710
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⟨220⟩

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	1	5		
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Arg Gln Arg Arg Pro	Leu Arg Pro Gln Va	l Val Thr Asp As	p Asp Gly	
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Gln Ala Pro Glu Ala	Lys Asp Gly Ser Se	er Phe Ser Gly Ar	g Val Phe	
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Arg Val Thr Phe Leu	Met Leu Ala Val S	er Leu Thr Val P	ro Leu Leu	
	45	50	55	
40 gga gcc atg atg ctg		ata gat cca cag c	ct ctc agc	244
gga gcc atg atg cts  Gly Ala Met Met Let	, Leu Glu Ser Pro	Ile Asp Pro Gln F	Pro Leu Ser	
		65	70	
6 tto aaa gaa ccc cc		gtt ctg cat cca	aat acg aag	292
tte aaa gaa ccc cc	g ctc tig ctt ggt	Val Leu His Pro	Asn Thr Lys	
Phe Lys Glu Pro Pr		Val bed in	85	
75	80			340
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Ser Ile Ala His	Ile Gly Asp Val Met	t Phe Thr Gly Thr	Ala Asp Gly	

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Arg Val Val Lys Leu	Glu Asn Gly Gl	u lle Glu Thr	lle Ala Arg	Pne	
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Gly Ser Gly Pro Cys	Lys Thr Arg A	sp Asp Glu Pro	o Val Cys Gly	Arg	
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Leu Leu Leu Ser Se	er Glu Thr Pro	lle Glu Gly L	ys Asn Met Se	er Phe	
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gtg aat gat ctt a	ca gtc act cag	gat ggg agg a	aag att tat t	tc acc	676
Val Asn Asp Leu T	hr Val Thr Gln	Asp Gly Arg	Lys Ile Tyr P	he Thr	
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gat tot ago ago a	aaa tgg caa aga	a cga gac tac	ctg ctt ctg g	gtg atg	724
Asp Ser Ser Ser I	Lys Trp Gln Arg	g Arg Asp Tyr	Leu Leu Leu \	Val Met	
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gag ggc aca gat		g ctg gag tat	gat act gtg	acc agg	772
gag ggc aca gat	Acn Gly Are Le	u Leu Glu Tyr	Asp Thr Val	Thr Arg	
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Ser Leu Ilis Asp Pro Asp Gly Leu Val Ala Thr Tyr lle Ser Glu Val	
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His Glu His Asp Gly His Leu Tyr Leu Gly Ser Phe Arg Ser Pro Phe	
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Leu Cys Arg Leu Ser Leu Gln Ala Val	
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Leu Leu Leu Gly Ala Trp	Ala Ile Pro Gly Gly	Leu Gly Asp Arg	
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25 30	35	40	
tra grr cac atg ccc gct ca	c ctg cgc tgt gat gcc	tgc aga gct gtg	195
Ser Ala His Met Pro Ala Hi	s Leu Arg Cys Asp Ala	Cys Arg Ala Val	
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get tac cag gtg agt ect to	ca cca ctg tca ecc tgo	e eet get cae ace	243
Ala Tyr Gln Val Ser Pro So	er Pro Leu Ser Pro Cy	s Pro Ala His Thr	
Kia i)i o	65	70	

cet tet caa gee aga eee ete cae eea eet cae att eea eea eeg gee

Pro Ser Gln Ala Arg Pro Leu His Pro Pro His Ile Pro Pro Pro Ala

85 80 75

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ats agt gra gag gad ago of	Met Pro Gly Led 017	15	
1 5	10	eta tar get gcc	336
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Ala Arg Trp Thr Leu Met Leu	Leu Leu Ser Thr Ala	Met Tyr 327	
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cat gcc cca ttg ctg gca ctg	tge cat gtg gae gge	cga gtg ccc tic	
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25	40	45	400
tea acc gtg ct	g ctg act gag ctg ac	c aag cta ctg tta	432
arg Pro Ser Ser Ala Val Le	eu Leu Thr Glu Leu Th	nr Lys Leu Leu Leu	
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100	105		624
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ser Gly Pro Gly Leu	can Glu Gly Phe	Ser Gly Tr	Ala Ala Leu Val	
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gtg ctg agc cag gca	cta aat gga ctg	cic aig	- Ala Val Met Lvs	
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1910

1970

260	265	2	70	
age age ate aca	cgc ctc ttt gtg	gtg tcc tgc t	cg cig grs	104
His Gly Ser Ser Ile Thr	Arg Leu Phe Val	Val Ser Cys S	Ser Leu Val	
275	280	285		50
ess get gtg etc tea	a gca gtc ctg cta	egg ctg cag	CIC ACA GOO	1152
Val Asn Ala Val Leu Sei	r Ala Val Leu Le	ı Arg Leu Gln	Leu Thr Ala	
200	295	300		1200
tto tto ctg gcc ac	a tig cic att gg	c ctg gcc atg	ege etg tac	1200
Ala Phe Phe Leu Ala Th	nr Leu Leu Ile Gl	y Leu Ala Met	Arg Dea 17-	
305	10	315	320	1250
tat ggc agc cgc tagtc	cctga caacttccac	cctgattccg ga	accetgt	1200
Tyr Gly Ser Arg				
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agattgggcg ccaccacca	g atocccctec cag	geettee teecte	tectetage	1370
tanggag tgccttgtg	a gaaaagctgg aga	agtgagg gcagco	caggi caccess of	1430
-++ agt ag at gaagggg	t accectagga gat	gtgaagt gtggg	ttigg ctaaggas	1490
gcttaccatc ccccaccc	cc aaccaagtte tte	ccagacta aagaa	+++ gtrctgcatg	1550
tacctaggcc tgagaaat	aa ccccatcctt gt	tgggcage teeet	tgect actttagtca	1610
aacagagttg atgaaagt	gg ggtgtgggca ac	aagtgget tied	great ga ctcttccata	1670
cccagcagag ccactgga	igo tggotagtoc ag	cccagcca igg	cacaga ttatacaac	1730
agggatecte accette	cac titcaigcaa ga	aggeccag lige	ctagag acatgctcc	c 1790
attacccaaa ccactct	gac agtetectee a	gttccagca argu	-casacc ccagagage	g 1850

tgecetetec acagtgetge tecceacace tageettigt tetggaaace ecagagaggg

ctgggcttga ctcatctcag ggaatgtagc ccctgggccc tggcttaagc cgacactcct

gacctetetg treaccetga gggetgtett gaageeeget acceaetetg aggeteetag

PCT/JP00/03942

208

gaggtaccat getteceact etggggeetg eccetgeeta geagtetece ageteceaac 2030 agcctgggga agctctgcac agagtgacct gagaccaggt acaggaaacc tgtagctcaa 2090 tcagtgtctc tttaactgca taagcaataa gatcttaata aagtcttcta ggctgtaggg 2150 2170 tggttcctac aaccacagcc ⟨210⟩ 28 <211 · 1738 <212 - DNA <213 Homo sapiens <220> <221> CDS (222, (95)... (508) ⟨400⟩ 28 aaaaagggga ggaaattgaa actgagtggc ccacgatggg aagaggggaa agcccagggg 60 tacaggagge etetgggtga aggeagagge taac atg ggg tte gga geg ace 112 Met Gly Phe Gly Ala Thr 5 1 ttg gcc gtt ggc ctg acc atc ttt gtg ctg tct gtc gtc act atc atc 160 Leu Ala Val Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile 20 15 10 atc tgc ttc acc tgc tcc tgc tgc tgc ctt tac aag acg tgc cgc cga

Ile Cys Phe Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg 30 25

cca cgt ccg gtt gtc acc acc a	ec aca toe ace act gtg gtg	cat gcc	256
Pro Arg Pro Val Val Thr Thr T	the The See The The Val Val	l His Ala	
	50		
40 45		200	304
cct tat cct cag cct cca agt g	gtg ccg ccc agc lac cct gg	a cca ago	
Pro Tyr Pro Gln Pro Pro Ser	Val Pro Pro Ser Tyr Pro Gl	y Pro Ser	
55 60	65	10	0.50
tac cap ggc tac cac acc atg	ccg cct cag cca ggg atg co	a gca gca	352
Tyr Gln Gly Tyr His Thr Met	Pro Pro Gln Pro Gly Met P	ro Ala Ala	
75	80	85	
ccc tac cca atg cag tac cca	cca cct tac cca gcc cag c	cc atg ggc	400
Pro Tyr Pro Met Gln Tyr Pro	Pro Pro Tyr Pro Ala Gln F	ro Met Gly	
90	95	100	
cca ccg gcc tac cac gag acc	c ctg gct gga gga gca gcc	gcg ccc tac	448
Pro Pro Ala Tyr His Glu Thi	r Leu Ala Gly Gly Ala Ala	Ala Pro Tyr	
105	110		
ccc gcc agc cag cct cct ta	c aac cog goo tac atg gat	gcc ccg aag	<b>4</b> 96
Pro Ala Ser Gln Pro Pro Ty	r Asn Pro Ala Tyr Met Asp	Ala Pro Lys	
19	25 130		
120	ggeetete tggetgeeae ttggtt	atgt tgtgt	550
gog god etc tgagcatted cu	ggcccco veeo		
Ala Ala Leu			
135	otatat	ortg tgtgtgtcca	610
gtgtgcgtga gtggtgtgca ggc	egoggito ottacgocco atgigt	atat stggcttcct	670
ggcacggtte cttacgcccc at	gtgtgctg tgtgtgtcct gcctgt	nona gartttgttC	730
ctgatgctga caaggtgggg aa	caateett geeagagtgg getggg	acca succession	790
tettecteae etgaaattat ge	ttectaaa ateteaagee aaaete	aaag aatggggtes	, ,

850 tggggggcac cetgtgaggt ggcccetgag aggtgggggc ctetecaggg cacatetgga 910 gttettetee agettaccet agggtgacca agtagggeet gteacaccag ggtggegcag 970 ctttctgtgt gatgcagatg tgtcctggtt teggcagegt agccagetge tgcttgagge catggetegt ecceggagtt gggggtacce gttgcagage cagggacatg atgcaggega 1030 1090 agettgggat etggeeaagt tggaetttga teetttggge agatgteeca ttgeteectg 1150 gageetgtea tgeetgtigg ggateaggea geeteetgat geeagaacae eteaggeaga geoctactea getgtacetg tetgeetgga etgteecetg teccegeate teccetggga 1210 ccagctggag ggccacatge acacacagee tagetgeece cagggagete tgctgccett 1270 getggeeetg ecetteceae aggtgageag ggeteetgte caccageaea eteagtiete 1330 ttccctgcag tgttttcatt ttattttagc caaacatttt gcctgttttc tgtttcaaac 1390 1450 atgatagttg atatgagact gaaacccctg ggttgtggag ggaaattggc tcagagatgg acaacctggc aactgtgagt coctgettee egacaccage etcatggaat atgcaacaac 1510 1570 tectgtacce cagtecacgg tgttetggca geagggacae etgggecaat gggecatetg 1630 gaccaaaggt ggggtgtggg gccctggatg gcagctctgg cccagacatg aatacctcgt gitectecte ectetatiae igitteacea gageigiett ageicaaate igiigigitt 1690 1738 ctgagtctag ggtctgtaca cttgtttata ataaatgcaa tcgtttgg

<210> 29

<211 1930

<212> DNA

<213 Homo sapiens

⟨220⟩

⟨221' CDS

(222> (82)...(1017)

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ctctgcgcgt ccgacggcga c atg ggc gtc ccc a	acg gcc ctg gag gcc ago	
Met Gly Val Pro	Thr Ala Leu Glu Ala Gi	
1	5	159
age tgg ege tgg gga tee etg ete tte get	ctc ttc ctg gct gcg tcc	100
Ser Trp Arg Trp Gly Ser Leu Leu Phe Ala	Leu Phc Leu Ala Ala Ser	
15	23	
cta ggt ccg gtg gca gcc ttc aag gtc gcc	acg ccg tat tcc ctg tat	207
Leu Gly Pro Val Ala Ala Phe Lys Val Ala	Thr Pro Tyr Ser Leu Tyr	
Leu Gly Pro var man 35	40	
gto tgt coo gag ggg cag aac gto acc ct	c acc tgc agg ctc itg ggc	255
gtc tgt ccc gag ggg cdg and Val Cys Pro Glu Gly Gln Asn Val Thr Le	u Thr Cys Arg Leu Leu Gly	
50	55	
45 cct gtg gac aaa ggg cac gat gtg acc t	to tac aag acg tgg tac cgc	303
ect gtg gac aaa ggg eae gat gog a Pro Val Asp Lys Gly His Asp Val Thr P	he Tyr Lys Thr Trp Tyr Arg	
	70	
60 65	ca gag ege egg ece ate ege	351
ago tog agg ggc gag gtg cag acc tgc t	Sor Glu Arg Arg Pro Ile Arg	
Ser Ser Arg Gly Glu Val Gln Thr Cys S	85	
75		399
aac ctc acg ttc cag gac ctt cac clg	cac cat gga gge cas and	
Asn Leu Thr Phe Gln Asp Leu His Leu	His His Gly Gly HIS WILL	
95	100	447
gee aac ace age cac gae etg get cag	cgc cac ggg ctg gag tcg gcc	• • •

		clu	Sor Ala	
Ala Asn Thr Ser His Asp I	Leu Ala Gln Arg I	dis Gly Leu Glu	Jei III-	
110	115	120		
tcc gac cac cat ggc aac	ttc tcc atc acc	atg cgc aac ctg	acc ctg	495
Ser Asp His His Gly Asn	Phe Ser Ile Thr	Met Arg Asn Leu	Thr Leu	
125	130	135		
to got ago ggo cto tac	tgc tgc ctg gtg	gtg gag atc agg	cac cac	543
Leu Asp Ser Gly Leu Tyr	- Cys Cys Leu Val	Val Glu Ile Are	His His	
1.40	145	150		501
tog gag rac agg gt	c cat ggt gcc at	g gaa ctg cag gt	g cag aca	591
His Ser Glu His Arg Va	l llis Gly Ala Me	t Glu Leu Gln Va	l Gln Thr	
166	50	165	110	
one gat gea eca to	cc aac tgt gtg gt	g tac cca too to	cc tcc cag	639
Gly Lys Asp Ala Pro S	er Asn Cys Val Va	al Tyr Pro Ser S	er Ser Gln	
175	1	80	100	
gag agt gaa aac atc a	acg get gea gee e	tg gct acg ggt g	cc tgc atc	687
Glu Ser Glu Asn Ile	Thr Ala Ala Ala l	eu Ala Thr Gly A	la Cys Ile	
190	195		200	=05
gta gga atc ctc tgc	ctc ccc ctc atc	ctg ctc ctg gtc	tac aag caa	735
Val Gly Ile Leu Cys	Leu Pro Leu Ile	Leu Leu Leu Val	Tyr Lys Gln	
205	210	215		<b>700</b>
and one were gee tee	aac cgc cgt gcc	cag gag ctg gtg	cgg atg gac	783
Arg Gln Ala Ala Ser	- Asn Arg Arg Ala	Gln Glu Leu Val	Arg Met Asp	
220	225	230		
and and att caa gg	g att gaa aac cco	ggc ttt gaa gcc	tca cca cct	831
Ser Asn Ile Gln Gl	y Ile Glu Asn Pr	o Gly Phe Glu Ala	a Ser Pro Pro	
Der ugn 110				

240	245	250	
gcc cag ggg ata ccc gag gcc aaa gtc	agg cac ccc ctg tcc	tat gtg	879
Ala Gln Gly Ile Pro Glu Ala Lys Val	Arg His Pro Leu Ser	Tyr Val	
	260	<b>26</b> 5	
255		gag CCC	927
gcc cag cgg cag cct tct gag tct ggg	cgg cat ctg ttt tos	Glu Pro	
Ala Gln Arg Gln Pro Ser Glu Ser Gly			
270 275	280		975
age acc ecc etg tet ect cea gge ecc	gga gac gtc ttc ttc	cca tcc	310
Ser Thr Pro Leu Ser Pro Pro Gly Pro	Gly Asp Val Phe Pho	Pro Ser	
285 290	295		0
ctg gac cct gtc cct gac tct cca aad	e tit gag gic atc ta	gece	1020
Leu Asp Pro Val Pro Asp Ser Pro Asi			
300 305	310		
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gccaggcctg cctgcccact ggccatcgcc	Acciticance Residence	ot grattecagt	1620
tetetgaaga tetgteaaca ggitaagica	atetgggget tecaetge	ta acctecatas	1680
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cag ctg aac age tte ggt tte tae acc aat gge tet etg gag gtg gag

	70 × A	on Gly Ser Leu Gl	u Val Glu	
Gln Leu Asn Ser Phe	Gly Phe Tyr Inr A	511 013 001		
50	55	60		241
ttg ago gto ctg ogg	g ctg ggn ctc cgg 8	gag gca gaa gag a	ag tee eig	211
Leu Ser Val Leu Ar	g Leu Gly Leu Arg (	Glu Ala Glu Glu L	ys Ser Leu	
	70	<b>7</b> 5		
65	t ctc agc cgg gtt	cgg tot ggc aga	gtt ege tee	289
ctg gtg ggg tte Se	er Leu Ser Arg Val	Arg Ser Gly Arg	Val Arg Ser	
	85	90	95	
80	at tic cag gac tgc	cct ctc cag ana	aac agt agc	337
tat tea acc egg g	at the Cag gas system	Pro Leu Gln Lys	Asn Ser Ser	
Tyr Ser Thr Arg A	Asp Phe Gin Asp 033	105	110	
	100		was stc cas	385
agt ttc ctg gtc	ctg ttc ctc atc aa	c arc aag gal Cis	Cin Val Gin	
Ser Phe Leu Val	Leu Phe Leu Ile As	n Thr Lys Asp Let	GIII VAI GIII	
115	12	20	125	433
gtg cgg aag tat	gga gag cag aag ac	eg tig til alc it	t ccc ggg ctc	433
Val Arg Lys Tyr	Gly Glu Gln Lys T	hr Leu Phe Ile Ph	e Pro Gly Leu	
130	135	14	0	
130	a ccc tcc aaa cca g	gg ctc ccg aag co	ca cag gcc aca	481
ctc ccg gaa go	a Pro Ser Lys Pro (	Gly Leu Pro Lys P	ro Gln Ala Thr	
Leu Pro Glu Ala		155		
145	150	and tot goals	cc agc aag ccc	529
gtc ccc cgc aa	ng gtg gat ggc gga	ggg acc tot be a	lla Ser Lys Pro	
Val Pro Arg Ly	ys Val Asp Gly Gly		175	
160	165	170		577
aag tca aca c	cc gca gtg att cag	ggt cct agt ggg	aag gac aag gac	-
Lys Ser Thr F	Pro Ala Val Ile Gln	Gly Pro Ser Gly	Lys Asp Lys Asp	
<del>-</del> ,-				

180 ctg gtg ttg ggc ctg agc cac	185	190 tac aac ttc agt ttc	625
Leu Val Leu Gly Leu Ser His	s Leu Asn Asn Ser 200 g gcg gaa gaa ggc	205 cag tac agc ctg aac	673
His Val Val Ile Gly Scr Gl  210  ttc cac aac tgc aac aat to Phe His Asn Cys Asn Asn S	n Ala Glu Glu Gly 215 ca gtg cca gga aag	220 g gag cat cca ttc gac	721
	30 gag aag aac ccc ga	t ggc ttc ctg tcg gca	769
240 245  gcg gag atg ccc ctt ttc  Ala Glu Met Pro Leu Phe	aag ctc tac atg g	to atg too goo tgo tto	817
260	265 tgg gtg tcc atc	<b>5</b>	865
275	280 c tgg ctc atg gcg	gcc ttg gcc ttc acc aag Ala Leu Ala Phe Thr Lys	913
290	295 to cac ago ato aad Phe His Ser Ile As	300 E tac tac tic atc aac agc n Tyr Tyr Phe Ile Asn Ser 315	961
305	310		

cag ggc cac eec atc gaa ggc ctt	goo gio aig tao tao	atc gca cac l	009
cag ggc cac ccc atc gaa ggc ctc. Gln Gly His Pro Ile Glu Gly Leu	Ala Val Met Tyr Tyr	Ile Ala His	
Gln Gly His Pro Ile Glu Gly Leu	330	335	
325		att ggc tca	1057
320 ctg ctg aag ggc gcc ctc ctc ttc	arc acc uses	lle Gly Ser	
Leu Leu Lys Gly Ala Leu Leu Phe	. He inr He min	350	
340	345	g aag aag gtc	1105
ggc tgg gcc ttc atc aag tac gto	c ctg tcg gat aag ga	Lys Lys Val	
ggc tgg gcc tic atc and day out of Gly Trp Ala Phe Ile Lys Tyr Va	l Leu Ser Asp Lys Gi	365	
255	360		1153
355 ttt ggg atc gig atc ccc atg ca	ag gtc ctg gcc aac g	tg gcc tac atc	
ttt ggg atc gig atc coo beg Phe Gly Ile Val Ile Pro Met G	ln Val Leu Ala Asn V	al Ala lyr lle	
3	375	,00	1201
age gag gaa j	gge gee age gae tae :	gtg ctg tgg aag	1201
atc atc gag tcc cgc gag gar Ile Ile Glu Ser Arg Glu Glu	Gly Ala Ser Asp Tyr	Val Leu Trp Lys	
390	222		.040
385 gag att ttg ttc ctg gtg gac	ctc atc tgc tgt ggt	gcc atc ctg ttc	1249
gag att ttg ttc ctg gtg gar Glu Ile Leu Phe Leu Val Asp	Leu Ile Cys Cys Gly	Ala Ile Leu Phe	
	410	415	
400 405 ccc gta gtc tgg tcc atc cg	g cat ctc cag gat go	tet gge aca gae	1297
ccc gta gtc tgg tcc atc cg Pro Val Val Trp Ser Ile Ar	- Wie Leu Gln Asp Al	a Ser Gly Thr Asp	
Pro Val Val Trp Ser Ile Ar	425	430	
420		ig tic egg cat ta	1345
ggg aag gtg gca gtg aac c	tg gcc aag ctg ddg	en Phe Arg His Ty	r
ggg aag gtg gca gtg aan s Gly Lys Val Ala Val Asn L	eu Ala Lys Leu Lys C	445	
495	440	• -	
tat gtc atg gtc atc tgc	tac gtc tac ttc acc (	ogo acc acc ser	

Tyr Val Met Val Il	e Cys Tyr Val Tyr	Phe Thr Arg	Ile Ile Ala Ile	
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450 ctg ctg cag gtg gc		g tgg cag tgi	g ctg tac cag ctc	1441
ctg ctg cag gtg go	t gtg ccc ttt ca	n Trn Gln Tri	p Leu Tyr Gln Leu	
Leu Leu Gln Val Al	a Val Pro Phe GI	47	, r	
<b>46</b> 5	470			z 1489
tig gig gag ggc t	cc acc ctg gcc tt	c ttc gtg ct	c acg ggc tac acg	,
Leu Val Glu Gly S	er Thr Leu Ala Ph	ne Phe Val Le	eu inr Gly lyl by	
400	485	490	13	·
	ggg aac aac ccg t	ac ctg cag c	tg ccc cag gag ga	ıc 1537
tic cag tee are	Gly Asn Asn Pro T	yr Leu Gln L	eu Pro Gln Glu As	q;
Phe Gin Pro III	500	505	510	
	ota ana caa	gta atg acg (	gac tct ggg ttc c	gg 1585
gag gag gat gtt	cag atg gas can	Val Met Thr	Asp Ser Gly Phe A	rg
Glu Glu Asp Val	Gln Met Glu Gin		525	
515		520	ggg cgg gaa ctg	tta 1633
gaa ggc ctc tcc	aaa gtc aac aaa	aca gcc agc	ggg cgg gaa ctg	1.eu
Glu Gly Leu Se	r Lys Val Asn Lys	Thr Ala Ser	Gly Arg Glu Leu	
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